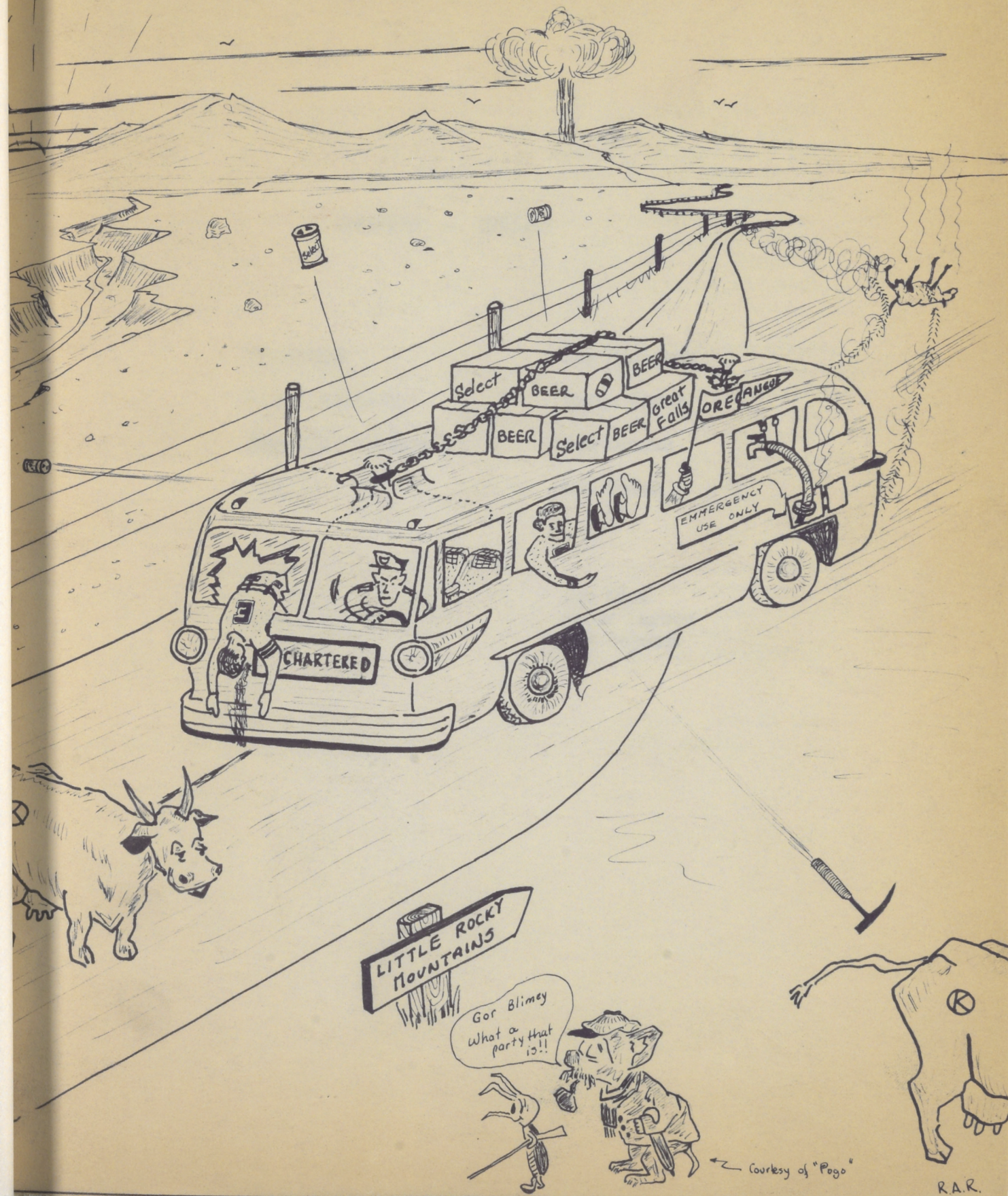


16:6. pens.

# CONCENTRATES

'56-'57



Courtesy of "Pogo"

R.A.R.







## EDITORIAL

Another university term is drawing to a close and as usual it will be the last for many of us, we hope. It seems like only yesterday that we entered these halls of learning and yet four years have passed us by. For two of those four years it has been our privilege and pleasure to have been a member of the Ore Gangs. In those years we have been a part of the organization. It seems that it is just as if we had been a part of the family to the youngest member. We are sure the graduates will not forget the Ore Gangs when they leave and we hope that the undergraduates will carry on the traditions.

### OFFICERS - 1956-57

President

Roy Rudichuk

Vice President

Bryan Pryce

Secretary Treasurer

Joe Dundas

P.R.O.

Don Smith

Concentrates

Don Kent  
Lorne Larson  
Ron Cojocar

The crowded conditions of the Geology department reached a peak this year when it was found necessary to add a Geology II and Geology III class. The department is now in a position to add a fourth class. It is hoped that this situation will soon be a reality and the department will be allowed to extend into the space occupied by the shops as was planned.

In closing we would like to wish everyone good luck in the forth coming battle of brains, particularly the 1957 grade.



# OFFICERS - 1956-57

|                     |              |
|---------------------|--------------|
| President           | Roy Rudichuk |
| Vice President      | Bryan Pryce  |
| Secretary Treasurer | Joe Dumas    |
| P.R.O.              | Don Smith    |

|              |   |
|--------------|---|
| Concentrates | Don Kent<br>Lorne Larson<br>Ron Cojocar |
|--------------|---|



## EDITORIAL

Another university term is drawing to a close and as usual it will be the last for many of us, we hope. It seems like only yesterday that we entered these halls of learning and yet four years have passed us by. For two of those four years it has been our privilege and pleasure to have been a member of the Ore Gangue. In those years we have not seen a closer knitted organization. It seems that it is just one big happy family from the faculty to the youngest member. We are sure that the graduates will not forget the Ore Gangue when they leave and we hope that the undergraduates will carry on the traditions.

A continued place of prominence in Canadian academic circles is seen for the department with the recent announcement of an addition to its staff for the 1957-58 term. The new member is Dr. J. R. Smith a graduate of this university in geological engineering. Dr. Smith has been doing research work in recent years with the Geophysical Institute at Washington, D. C. Besides carrying on with his research Dr. Smith will lecture in mineralogy and advance petrology. To aid him in his research program the department intends to obtain an X-ray refractometer.

The crowded conditions of the Geology department reached a peak this year when it was found necessary to conduct a Geology 11 and Geology 21 lab on the same day and in the same location. It is hoped that this situation will soon be alleviated and that the department will be allowed to extend into the area now occupied by the shops as was planned.

In closing we would like to wish everyone good luck in the forth coming battle of brains, particularly the 1957 grads.







## LOGGING THE GRADS

The following, to the best of our knowledge, are the correct addresses of all the grads of whom we were able to obtain records. Please notify us of any errors or omissions so that the records may be kept up-to-date for the next issue of the Concentrates.

### Class of '29

HAGE, C. O. - Consulting, 103 Derrick Building, Calgary, Alta.

### Class of '30

KEEVIL, N. B. - President, Mining Geophysics Corporation Limited,  
11 Jordan St., Toronto.

### Class of '31

WILSON, N. L. - 2 Donegal Avenue, Greenside E.,  
Johannesburg, Union of South Africa

### Class of '32

NICHOLSON, T.A.E. - Farming, Tuxford, Sask.  
SHAW, G. - Geophysical and Geological Consultant, Ottawa.

### Class of '33

GARNETT, R. E. - 118 Martin Avenue, Winnipeg, Man.  
LANDES, R. W. - Assistant Manager in charge of Exploration, Imperial Oil  
Limited, Calgary, Alta.

### Class of '34

MALOUF, S. E. - Consulting Geologist, Box 134, Chibougamau, P. Que.  
NORDAL, J. G. - 241 Gorge Road, E., Victoria, B. C.

### Class of '35

HOGG, C. A. L. - Deputy Minister, Department of Mineral Resources,  
Government Administration Building, Regina, Sask.  
SCOTT, J. S. - Kenneco Explorations Limited, Room 802, 402 West Pender  
St., Vancouver, B. C.  
WEIR, J. D. - Vice-president, California Standard, R. 65, Sea View  
Avenue, Piedmont, California.

### Class of '36

ALLAN, R. B. - Geologist, Faraday Uranium Mines, Limited, Bancroft Area,  
Ontario.

BAKER, J. H. - Canuck Gold Mines, Isaka, Tanganyika, South Africa.  
CROTEAU, F. L. - Osler, Hammond and Nanton, Calgary, Alta.  
ELSLEY, B. C. - 11913 Heritage Lane, Houston 24, Texas.  
HART, E. A. - Quyon, Que.  
HARVEY, R. A. - 2031 - 40th Avenue, S.W., Calgary, Alta.  
MOSS, A. E. - Chief geologist, Iron Ore Company of Canada, Montreal 9, P.Q.







- PARRES, J. C. - Managing Director, Dee Explorations Limited, 502 Standard Building, Saskatoon, Sask.  
 ROBINSON, W. G. - Geologist for Ventures Limited, Noranda, P. Q.  
 STEWART, G. T. - Deceased, 1953.  
 THOMPSON, M. C. - Canuck Gold Mines, Isaka, Tanganyika, South Africa.  
 THOMSON, J. A. - Box 97, Yellowknife, N.W.T.  
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 TRENHOLM, L. S. - Consulting Geologist, 186 Frontenac Avenue, Noranda, Que.

Class of '37

- AKEHURST, A. J. - Shell Oil, Calgary, Alta.  
 AMES, H. - 800 Colony Street, Saskatoon, Sask.  
 CLARKE, J. M. C. - Vancouver, B. C.  
 CREED, D. A. - R.C.A.F. Rockliffe, Ont.  
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 PENNER, D. G. - Research Geologist, Royalite Oil Company, Calgary, Alta.  
 REDFORD, L. R. - Aunor Mines, Timmins, Ontario.  
 SWANSON, E. A. - Buchans, Newfoundland.

Class of '38

- BERENBOM, George - 8678 - Bay Parkway, Brooklyn, 14, N.Y.  
 CHRISTOPHER, I. C. - Box 280, Bourlamarque, Que.  
 CRULL, E. T. - Dickenson Red Lake Mines, Limited, Balmerton, Ont.  
 DENTON, W. E. - International Petroleum, Talara, Peru.  
 GALLUP, W. B. - Consulting Geologist, Calgary, Alta.  
 HANCOCK, W. P. - Merrill Petroleum Limited, 510A 8th Avenue W, Calgary, Alta.  
 McDougall, G. H. - Giant Yellowknife Gold Mines, Limited, N.W.T.  
 MOORE, G. N. - Exploration Superintendent, C.M. and S., Port Arthur, Ont.  
 PARRES, A. L. - Consulting Geologist, Flin Flon, Man.

Class of '39

- BROWN, G. W. - 310 Lanark St., Winnipeg, Man.  
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 HAHN, H. G. - No. 36 Cecil Street, Toronto, Ontario.  
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 SANDERSON, W. J. - Imperial Oil Limited, Regina, Sask.  
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 THORSON, E. F. - Imperial Oil Limited, Edmonton, Alta.  
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 STEWART, G. T. - Deceased, 1957.  
 ROBINSON, W. G. - Geologist for Ventures Limited, Noranda, P. Q.  
 PARKES, J. C. - Managing Director, Des Exploration Limited, 502 Standard Building, Saskatoon, Sask.

### Class of 197

SWANSON, E. A. - Bythons, Newfoundland.  
 REDFORD, L. R. - Aurora Mines, Timmins, Ontario.  
 FENNER, D. G. - Research Geologist, Royalite Oil Company, Calgary, Alta.  
 MORROW, H. F. - Gardner, Low and Morrow (Mining and Petroleum Geologists), Toronto, Ontario.  
 MACKAY, D. G. - Aeromagnetic Survey Limited, 1460 O'Connor Drive, Regina, P. Q.  
 GREIG, E. W. - Aluminum Co. of Canada, Hudson Heights, P. Q.  
 FOUNDS, W. A. H. - Ft. Qu'Appelle, Sask.  
 CREED, D. A. - R.C.A.F. Rockliffe, Ont.  
 CLARKE, J. M. C. - Vancouver, B. C.  
 AMES, H. - 800 Colony Street, Saskatoon, Sask.  
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### Class of 198

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 MCDONALD, G. H. - Giant Yellowknife Gold Mines, Limited, N.W.T.  
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 GALLUP, W. B. - Consulting Geologist, Calgary, Alta.  
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### Class of 199

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 SIDONS, J. D. -  
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 LAWSON, W. R. - Teaching at Ballantyne Technical School, Regina, Sask.  
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- WARNING, G. F. - Geology Department, C.M. and S. Kimberley, B. C.  
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800 New Birks Building, 620 Cathcart Street, Montreal, P.Q.

Class of '40

- BADENOCK, D. C. -  
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BEARD, G. C. - Beard Drilling Company, Calgary, Alta.  
DOUGLAS, J. M. - C. M. and S., Pine Point, N.W.T.  
FAST, H. J. - Chief Engineer of Maintenance of Way of Central Region,  
Union Station, Rm. 426, Toronto 1, Ontario  
GREENBERG, M. - 329 1/2 Pritchard Avenue, Winnipeg, Man.  
HENRY, V. D. - Youth Employment Bureau, Toronto, Ontario  
KEEVIL, A. R. - California Standard Oil, Calgary, Alta.  
McPHERSON, W. J. - Calvin Consolidated Oil and Gas, 624 - 9th Avenue West,  
Calgary, Alta.  
PEEK, G. J. - R.C.A.F. Summerside, P.E.I.  
THOMAS, G. P. - Box 115, Haileybury, Ont.

Class of '41

- AKERHURST, L. L. - Importer for Leo de Kegel Diamonds, Dorval, Que.  
CAHONS, R. B. - Mine Geologist, H.B.M. and S., Flin Flon, Man.  
CAVERLY, J. - Gardner - Denver Company, Quincy, Ill.  
CHACHULA, S. - Farming at Bienfait, Sask.  
FRANTZ, J. C.  
HARDING, S. R. L. - J. C. Sproule and Associates, 901 - 8th Avenue, W.,  
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IBBOTSON, J. - Pacific Petroleum, Ft. St. John, B. C.  
LADD, H. S. - U.S. Geological Survey, Washington, D.C.  
MARKLAND, G. D. - Britannia Mines, Britannia Beach, B.C.  
SHIRKLE, J. 1 R.R. No. 1, Clairemont, Ontario  
TAYLOR, B. - Geologist, Quemont Mining Corporation, Noranda, P.Q.

Class of '42

- COLE, J. R. - Shawinigan Chemicals Ltd., Shawinigan Fall, Que.  
CONNICK, T. - Imperial Oil Limited, Calgary, Alta.  
COOKS, R.M. - Co-Ordinator, Oil and Gas Conservation Board, Government  
Administration Building, Regina, Sask.  
HAMILTON, F. J. - Consulting, Calgary, Alta.  
HARDING, S.R.L. - J. C. Sproule and Associates, Calgary, Alta.  
HOONEY, G. - Taking Mining Course at University of British Columbia,  
Vancouver, B. C.

Class of '43

- FORREST, J. M. - C.M. and S., Kimberley, B.C.  
MARSHALL, G.M.T. - INCO Stobie Mines, Sudbury, Ontario  
OSTAPOVITCH, S. R. - Theodore, Sask.  
POUNDER, D. A. - District Geologist, Standard of California, Brandon, Man.  
URTON, R. E. - Shell Oil Company, Holland







Class of '44

EASTWOOD, G.E.P. - Department of Mines, Parliament Buildings, Victoria, B.C.  
LEPP, H. - University of Minnesota, Duluth Br., Duluth 55, Minn., U.S.A.  
MATHEWS, J. G. - Geologist, Development Department, C.P.R., Calgary, Alta.  
WATSON, H. D. - Pipe Line Company, Edmonton, Alta.

Class of '45

LATOUR, B. A. - Geological Survey of Canada, Ottawa, Canada  
PORTER, J. W. - District Geologist, Canadian Superior Oil Company of  
California, Regina, Sask.  
THORSTEINSON, R. - Geological Survey of Canada, Ottawa, Canada  
UGER, J. L. - Teaching palaeontology and stratigraphy at Queen's University,  
Kingston, Ontario

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KIRKLAND, R. S. - Iron Ore Company of Canada, 1690 Graham Blvd., Montreal,  
P.Q.  
MARKLUND, G. O. - Britannia Mines, P.O. Mount Shear, B.C.  
MATHESON, K. A. - Oilfields Consultant Limited, Calgary, Alta.  
POUNDER, D. A. - California Standard, Calgary, Alta.  
SIRGUL, W. R. - C. M. and S., Yellowknife, N.W.T.

Class of '47

ASTON, H. F. - C. M. and S. Port Arthur, Ontario  
CHERITON, C. - Anaconda American Brass Limited, New Toronto, Ontario  
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Class of '48

BAILLIE, R. M. - 2110 - 26th Avenue West, Calgary, Alta.  
BANNISTER, W. E. - California Standard Oil, Calgary, Alta.  
CALIMENTE, D. - 2860 S. Commercial, Salem, Ore., U. S. A.  
GRANT, G. D. - California Standard Oil Company, Calgary, Alta.  
HEWETSON, H. - Imperial Oil Limited, Calgary, Alta.  
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KUTZ, K. J. - Snow Lake, Man.  
MacDONALD, G. K. - International Petroleum, Lima, Peru.  
MacLEOD, R. - California Standard Oil, Calgary, Alta.  
McNINCH, J. - J. C. Sproule and Associates, 901 - 8th Avenue W., Calgary, Alta.  
POW, J. R. - Petroleum and Natural Gas Conservation Board,  
514 - 11th Avenue West, Calgary, Alta.  
STUBBINS, J. - Iron Ore Company of Canada, Knob Lake, Que.

Class '49

BEARE, R. O. - Overseas S.V.P.M. Lirik, Sumatra.  
BLEAKLEY, S. B. - Royalite Oil Company, Calgary, Alta.  
BROWN, M. L. - Geologist, Aunor Gold Mines, Timmins, Ont.  
BUCKLAND, R. S. - Royalite Oil Company, Calgary, Alta.  
CROCKER, C. S. - Howe-Sound Exploration Company, Snow Lake, Man.  
CUNNINGHAM, G. E. - Anglo-American Exploration, Calgary, Alta.  
DUNNETT, J. F. - Pt. Radium, N.W.T., c/o Box 160, Edmonton, Alta.







FLOOD, A. L. - Canadian Superior Oil of California, 1810 - Albert Street,  
Regina, Sask.

FLOWER, R. J. - California Standard Oil Company, Calgary, Alta.

GOULD, C. D. - British American Oil Company, Regina, Sask.

HANES, F. E. - Geologist with Sohio Oil Company, Regina, Sask.

HAMILTON, G. J. - Royalite Oil Company, Calgary, Alta.

HATELID, W. G. - H.B.M. and S., Flin Flon, Man.

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LAATSCH, H. K. - Geologist with Suerior Oil Company, Box 745, Billings,  
Montana.

LOUCKS, W. A. - Canadian Superior Oil Company, Calgary, Alta.

MacKAY, I. H. - California Standard Oil Company, Calgary, Alta.

McKENZIE, R. O. - Geologist with Hudson Bay Oil and Gas, Calgary, Alta.

MOREAU, M. J. - Moreau, Woodward and Company, Limited, (Geophysical  
Exploration) Box 522, Flin Flon, Man.

NESBITT, J. - Geologist with Imperial Oil Limited, Regina, Sask.

PEARSON, W. J. - Department of Mineral Resources, Regina, Sask.

PICKEL, J. S. - Geologist with Imperial Oil Limited, Regina, Sask.

RIMMER, W. H. - Geologist, Texaco Exploration Company, Calgary, Alta.

RIDE, E. R. - Rush Lake, Sask.

ROMPRE, B. J. - Stanolind Oil Company, Calgary, Alta.

SMITH, J. R. - Geophysical Institute, Washington, D. C.

STEACY, J. A. -

STOBART, J. E. - Dominion Oil Limited, Box 199, Port of Spain, Trinidad.

WARICK, J. S. - Production Staff of H.B.M. and S., Flin Flon, Man.

WILSON, R. J. - Yellowknife, N.W.T.

#### Class of 150

AMBLER, J. S. - Sohio Petroleum, Regina, Sask.

DEVINE, J. - Imperial Oil Limited, Edmonton, Alta.

FRANCIS, D. R. - Department of Mineral Resources, Regina, Sask.

FRIESEN, P. S. - 2329 - 3rd Ave. E., Prince Albert, Sask.

HODGSON, F. P. - Box 160, Edmonton, Alta.

HORTON, A. G. - 421 Staff Hotel, Deep River, Ont.

KIRKLAND, S. J. T. - Department of Mineral Resources, Regina, Sask.

POTAPOFF, P. - Falconbridge, Ontario

POWLEY, D. E. - Stanolind Oil and Gas Company, Calgary, Alta.

SCDERLAND, H. W. - Jamestown, Ontario

TOMLIN, M. M. - Department of Mineral Resources, Regina, Sask.

TORRIE, J. E. - Tidewater Associated Oil, Regina, Sask.

VOLLO, N. B. - Snow Lake, Man.

ZUROWSKI, M. - 1002 - 110th Street, North Battleford, Sask.

KOSTIUK, M. - 18 Churchill Ave., Flin Flon, Man.

#### Class of 151

BECKIE, K. N. - H.B. Oil and Gas, 534A - 8th Avenue W., Calgary, Alta.

CUMMINGS, G. L. - Canadian Gulf Oil Company, Calgary, Alta.

DREW, D. A. -



WILSON, R. J. - Yellowknife, N.W.T.  
WARICK, J. S. - Production Staff of H.B.M. and S., Flin Flon, Man.  
STEWART, J. E. - Dominion Oil Limited, Box 199, Port of Spain, Trinidad.  
STACY, J. A. -  
SMITH, J. R. - Geological Institute, Washington, D. C.  
ROMPPE, B. J. - Stanolind Oil Company, Calgary, Alta.  
RODE, E. R. - Rush Lake, Sask.  
RIMMER, W. H. - Geologist, Texas Exploration Company, Calgary, Alta.  
PICKEL, J. S. - Geologist with Imperial Oil Limited, Regina, Sask.  
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MOREAU, M. J. & Moreau, Woodward and Company, Limited, (Geophysical Exploration) Box 522, Flin Flon, Man.  
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MACKAY, I. H. & California Standard Oil Company, Calgary, Alta.  
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HATEILD, W. G. - H.B.M. and S., Flin Flon, Man.  
HAMILTON, G. J. - Royaltite Oil Company, Calgary, Alta.  
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GOULD, C. D. - British American Oil Company, Regina, Sask.  
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Class of '50

KOSTIUK, M. - 18 Churchill Ave., Flin Flon, Man.  
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TORIE, J. E. - Tidewater Associated Oil, Regina, Sask.  
TODLIN, M. M. - Department of Mineral Resources, Regina, Sask.  
SODERLAND, H. W. - Jamieson, Ontario.  
POWLEY, D. E. - Stanolind Oil and Gas Company, Calgary, Alta.  
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HODGSON, F. P. - Box 160, Edmonton, Alta.  
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FRANCIS, D. R. - Department of Mineral Resources, Regina, Sask.  
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DREW, D. A. -  
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STALMACH, E. W. - Melville, Sask.  
VIGRASS, L. W. - Stanford University, California, U.S.A.  
WILLIAMS, F. J. - Sask. Federated CoOp., Saskatoon, Sask.

Class of '52

AGAR, C. F. - Shell Oil Company, Calgary, Alta.  
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BOYKO, W. - 23 Criagton Drive, Apt. 310, Scarborough, Ont.  
CRANE, J.P.T. - Mobil Oil Company of Canada, Calgary, Alta.  
EDMUNDS, R. - Shell Oil Company, Regina, Sask.  
FRASER, D. J. - Sohio Petroleum Company, Calgary, Alta.  
McLEOD, G. J. - Geologist, Oil Division, U. S. Smelting, Refining, and  
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VOGT, P. R. - Imperial Oil Limited, Regina, Sask.

Class of '53

BASARABA, K. E. - Mobil Oil Company, Ankara, Turkey.  
MAGDICH, F. S. - Texaco Exploration Company, Calgary, Alta.  
MATHEW, P. R. - Granby Cons., Copper Mtn., B. C.  
WILSON, D. - Imperial Oil Limited, Calgary, Alta.  
WOROBEY, W. A. - Shell Oil Company, Edmonton, Alta.

Class of '54

ARMITAGE, J. H. - Imperial Oil Limited, Dawson Creek, B. C.  
BERISOFF, M. - R.R. No. 1, Langham, Sask.  
CHRISTIANSEN, E. A. - Geology Department, University of Illinois, Urbana, Ill.,  
U.S.A.  
CLARK, L. A. - Geology Department, McGill University, Montreal, Que.  
CROCKER, G. W. - Shell Oil Company, Calgary, Alta.  
CRYDERMAN, J. M. - Imperial Oil Limited, Regina, Sask.  
DUDAR, J. S. - Eldorado Mining and Refining Company, Eldorado, P.D., Sask.  
GISLASON, B.G. - Wynyard, Sask.  
JORDAN, S. P. - Shell Oil Company, Regina, Sask.  
LEE, R. E., - Canadian Superior Oils, Regina, Sask.  
MACRONE, A. W. - Shell Oil Company, Calgary, Alta.  
OSACHOFF, S. - Shell Oil Company, Calgary, Alta.  
PAXTON, J. - Brooks, Alta.  
PETRUK, W. - Geology Department, McGill University, Montreal, Que.  
SHKLANKA, R. - Stanford University, California, U. S. A.  
THOMAS, R. B. - British American Oil Company, Regina, Sask.



JOHNSTON, G. H. - 1216 - 12nd Street East, Saskatoon, Sask.  
 KENNEDY, G. H. - Imperial Oil Limited, Regina, Sask.  
 KERNER, J. S. - Consulting Geologist, Uranium City, Saskatchewan  
 MILLER, W. J. - (M.Sc.), University of Kansas, Lawrence, Kansas  
 MULLICK, J. E. - INCO, Ltd. in Regina, Sask.  
 SCOTT, G. D. - Hannes Exploration, Calgary, Alta.  
 STANLEY, R. W. - Melville, Sask.  
 VIGAS, L. W. - Stanford University, California, U.S.A.  
 WILLIAMS, F. J. - Sask. Federated Coop., Saskatoon, Sask.

#### Class of '52

AGAR, C. F. - Shell Oil Company, Calgary, Alta.  
 ALMOND, P. - Iron Ore Company of Canada, Knob Lake, via Mont Joli, P.Q.  
 BING, C. A. - California Standard Oil Company, Virden, Man.  
 BOWEN, W. - 23 Crispin Drive, Apt. 310, Scarborough, Ont.  
 CRANE, J. P. T. - Mobil Oil Company of Canada, Calgary, Alta.  
 EMMINGS, R. S. - Shell Oil Company, Regina, Sask.  
 FRASER, D. J. - Sohio Petroleum Company, Calgary, Alta.  
 KELCO, G. J. - Geologist, Oil Division, U. S. Smelting, Refining, and Mining Co., Regina, Sask.  
 O'BERTS, B. - Royal Bank Building, Regina, Sask., Canadian Superior Oils.  
 REISNER, C. H. C. - Imperial, Sask.  
 ROTHMAN, D. C. - Box 320, Lake Cowichan, B.C.  
 VOGT, P. R. - Imperial Oil Limited, Regina, Sask.

#### Class of '53

BASARABA, K. E. - Mobil Oil Company, Ankara, Turkey.  
 MAGNICH, F. S. - Texaco Exploration Company, Calgary, Alta.  
 MATTHEW, P. R. - Grandy Cons., Copper Mines, B.C.  
 WILSON, D. - Imperial Oil Limited, Calgary, Alta.  
 WORSLEY, W. A. - Shell Oil Company, Edmonton, Alta.

#### Class of '54

ANTHONY, J. H. - Imperial Oil Limited, Dawson Creek, B.C.  
 BERTSON, M. - R.R. No. 1, Langham, Sask.  
 CHRISTENSEN, E. A. - Geology Department, University of Illinois, Urbana, Ill., U.S.A.  
 CLARK, L. A. - Geology Department, McGill University, Montreal, Que.  
 CROOKER, G. W. - Shell Oil Company, Calgary, Alta.  
 CROOKERMAN, J. M. - Imperial Oil Limited, Regina, Sask.  
 DUDAR, J. S. - Eldorado Mining and Refining Company, Eldorado, P.Q., Sask.  
 GILSON, B. G. - Wynyard, Sask.  
 JORDAN, S. P. - Shell Oil Company, Regina, Sask.  
 LEE, R. E. - Canadian Superior Oils, Regina, Sask.  
 MACROE, A. W. - Shell Oil Company, Calgary, Alta.  
 OSACHOFF, S. - Shell Oil Company, Calgary, Alta.  
 PAXTON, J. - Brooks, Alta.  
 PETRIK, W. - Geology Department, McGill University, Montreal, Que.  
 SHIMADA, R. - Stanford University, California, U.S.A.  
 THOMAS, R. B. - British American Oil Company, Regina, Sask.



Class of '55

BLOTT, A. J. - Sun Oil Company, Regina, Sask.  
CHERNOFF, C. N. - California Standard, Calgary, Alta.  
DEYHOLOS, A. M. - British America Oil Company, Regina, Sask.  
ECKSTRAND, O. R. - University of Stockholm, Stockholm, Sweden  
FREY, J. - Tidewater Associated Oil Company, Regina, Sask.  
FROESE, E. - Department of Mineral Resources, Regina, Sask.  
FROST, N. - Tidewater Associated Oil Company, Regina, Sask.  
GRASDAL, C. O. - Stanolind Oil and Gas Company Limited, Calgary, Alta.  
HOVDEBO, H. R., - California Standard Oil Company, Calgary, Alta.  
KENNEDY, G. - Rix Athabasca, Uranium City, Sask.  
LESIUK, O. - Mineral Resources, Swift Current, Sask.  
McMURTRY, G. J. - Royalite Oil Company, Regina, Sask.  
MELNYK, M. J. - Canadian Gulf Company, Calgary, Alta.  
NILSEN, L. R. - Gulch Mines, Uranium City, Saskatchewan  
PITULEY, L. J. - Iron Ore Company of Canada, Knob Lake, Quebec  
SAWATSKY, L. H. - Shell Oil Company, Calgary, Alta.  
REMPEL, Albert - Western Geophysics, Calgary, Alta.  
SIEMENS, D. L. - Amurex, Weyburn, Sask.  
SMITH, B. K. - California Standard Oil Company, Calgary, Alta.

Class of '56

BISHKO, J. P. - Commerce, University of Saskatchewan, Saskatoon, Sask.  
BRUNT, G. M. - British America Oil, Red Deer, Alta.  
BODNARCHUK, A. - Mastering, Colorado School of Mines, Golden, Colo., U. S. A.  
\*COCHRANE, B. D. - Great Plains Development Company, Calgary, Alta.  
DAY, D. A. - Shell Oil Company, Calgary, Alta.  
EDWARDS, R. G. - Mastering, University of Saskatchewan, Saskatoon.  
GREENWOOD, G. M. - California Standard, Regina, Sask.  
HAMBLEY, G. B. - Canadian Nickel Company, Mystery Lake, Man.  
\*JACKMAN, L. D. - Gulf Oil Company, Calgary, Alta.  
JANZEN, O. A. - B. A. Oil Company, Estevan, Sask.  
KANIK, T. - Gulf Oil Company, Calgary, Alta.  
\*LEVERSON, I. L. - California Standard Company, Calgary, Alta.  
\*McELROY, M. E. - California Standard Company, Calgary, Alta.  
McGinn, G. J. - Ireland.  
McIVER, H. L. - Ph.D. John Hopkins University, Baltimore, Md., U. S. A.  
MATWE, L. - Stanolind Oil and Gas, Calgary, Alta.  
MENELEY, R. A. - Mastering, University of Saskatchewan, Saskatoon.  
MENELEY, W. A. - Mastering, University of Saskatchewan, Saskatoon.  
MORRISON, L. G. - Engineering, University of Saskatchewan, Saskatoon.  
NUTTING, A. L. - B. A. Oil, Estevan, Sask.  
OLSON, R. E. - Consolidated Mining and Smelting, Kimberly, B. C.  
PYKE, M. - Mastering, University of Saskatchewan, Saskatoon, Sask.  
ROGAN, A. D. - Mastering, University of Saskatchewan, Saskatoon, Sask.  
\*SMITH, D. C. - Stanolind Oil and Gas, Powell, Wyoming, U. S. A.  
SPRATT, L. M. - Triad Oil,  
TIKKANEN, G. D. - Consulting, Flin Flon, Man.  
WILD, J. - Mastering, University of Saskatchewan, Saskatoon, Sask.  
WADDELL, W. H. - Texaco Oil Company, Calgary, Alta.

\* Petroleum Engineering.







# UNDERGRAD ACTIVITIES

Summer 1956

## Fourth year Engineers

| Name                      | Home address     | Summer activity                                |
|---------------------------|------------------|--|
| Crawford, L. B.           | Watrous, Sask.   | United Keno Mines Ltd., Y.T.                   |
| *Dundas, J. R.            | Francis, Sask.   | Imperial Oil Company, Lethbridge, Alta.        |
| Gilbertson-Pritchard K.C. | Regina, Sask.    | B.A. Oil Company, Calgary, Alta.               |
| *Howrie, I. S.            | Regina, Sask.    | Imperial Oil Co., Meadow Lake, Sask.           |
| Kent, D. M.               | Regina, Sask.    | Imperial Oil Co., Dawson Creek, B. C.          |
| Kitzan, P.                | Theodore, Sask.  | Cominco, Kimberley, B. C.                      |
| Nichol, M. A.             | Regina, Sask.    | Sask. Geological Survey, Northern Saskatchewan |
| *Sakundiak, E. C.         | Verigin, Sask.   | California Standard, Virden, Man.              |
| *Todd, M. B.              | Shaunavon, Sask. | Tidewater Assoc. Oil Company, Regina, Sask.    |
| Morrison, L. G.           | Robsart, Sask.   | Exploration, Mines, Ont.                       |

\* Petroleum Engineering.

## Arts

|                  |                      |  |
|------------------|----------------------|--|
| Best, M. M.      | Regina, Sask.        | Imperial Oil Company, Calgary, Alta            |
| Daae, H. D.      | Torquay, Sask.       | B. A. Oil Company, Calgary, Alta.              |
| Isfan, G.        | Dysart, Sask.        | Sask. Geological Survey, Northern Saskatchewan |
| Larson, L. H.    | Saskatoon, Sask.     | R.C.A.F.                                       |
| Mitchell, F.     | Prince Albert, Sask. | Sask. Geol. Survey, N. Sask.                   |
| Podhorodeski, P. | Paddockwood, Sask.   | G.S.C., Flin Flon, Man.                        |







### Third year engineers

| Name              | Home address                        | Summer's activities                            |
|-------------------|-------------------------------------|--|
| Bierlmeier, W. G. | Chelan, Sask.                       | Imperial Oil,                                  |
| Beckie, V. G.     | Bladworth, Sask.                    | Sask. Clay Production                          |
| Corn, G. T.       | Saskatoon, Sask.                    | United Keno Hill Mines                         |
| Evans, W. D.      | Unity, Sask.                        | U.N.T.D.                                       |
| Goldak, G. R.     | Prince Albert, Sask.                | Eldorado Mining and<br>Refining, Beaverlodge   |
| Gotts, R. J.      | Atikokan, Ont.                      | United Keno Hill Mines<br>Limited, Mayo, Yukon |
| Guistene, K. N.   | Foam Lake, Sask.                    | Hudson Bay Mining and<br>Smelting Co. Ltd.     |
| Hutch, G. F.      | Druid, Sask.                        | Pincher Creek, Alta. C.P.R.                    |
| Lissey, A.        | 2678 Robinson, St.<br>Regina, Sask. | Imperial Oil Limited,<br>Regina, Sask.         |
| Norlander, A. M.  | Flin Flon, Man.                     | Hudson Bay Mining and<br>Smelting Co.          |
| Perkins, G. D.    | Regina, Sask.                       | Sask. Geological Survey                        |
| Pryce, B. G.      | Carnot River, Sask.                 | Imperial Oil Limited                           |
| Rehwald, G.       | Regina, Sask.                       | C.M. and S. Kimberley, B.C.                    |
| Reinhardt, E. W.  | Asquith, Sask.                      | National Research Council,<br>Ottawa, Canada   |
| Smith, D. A.      | North Battleford,                   | H.E.E. and D.                                  |
| Smith, W. L.      | Manor, Sask.                        | Mobil Oil, Calgary                             |
| Toth, A. M.       | Regina, Sask.                       | Dept. of Highways, Moose<br>Jaw, Sask.         |
| Yont, D.R.        | Marchwell, Sask.                    | Anglo Rouyn Mines Ltd.                         |

### Arts

|                 |                  |  |
|-----------------|------------------|--|
| Ayres, L.       | Saskatoon, Sask. | Farming  |
| Cojocar, R. G.  | Regina, Sask.    | Dee Exploration Ltd. N.W.T.<br>and Flin Flon, Man. |
| Lauder, Mariene | Chelan, Sask.    | Texaco Exploration Co,<br>Calgary, Alta.           |
| McCamis, J. G.  | Arden, Man.      | California Standard, Rocky<br>Mountains.           |
| Rudichuk, Roy   | Regina, Sask.    | Sohio Petroleum Co.,<br>Regina, Sask.              |
| Doane, H. L.    | Moose Jaw, Sask. | G.S.C., Territories                                |
| Leblanc, M.     | Regina, Sask.    | R.C.A.F.   |

### Second year Arts

|                |                      |  |
|----------------|----------------------|--|
| Ayers, L.      | Saskatoon, Sask.     | Farming                                      |
| Collins, Barry | Prince Albert, Sask. | Dominion Forest Pathology<br>Lab., Saskatoon |
| Kaufmann, Bill | Pangman, Sask.       | Imperial Oil Limited                         |
| Marcotte, Pat  | Hudson Bay, Sask.    | Sask. Highway Traffic Board                  |
| Mireau, C. O.  | Nipawin, Sask.       | R.C.A.F.                                     |
| Pyke, D.       | Saskatoon, Sask.     | Geological Survey of Canada,<br>N.W.T.       |







|                |                  |                            |
|----------------|------------------|----------------------------|
| Sharpley, F.   | Saskatoon, Sask. | Canadian Nickel Co. N.W.T. |
| Sykes, Don     | Saskatoon, Sask. | C.P.R.                     |
| Sorokowsky, V. | Saskatoon, Sask. | City of Saskatoon          |

### Master students

| Name           | Home Address       | Summer's Activities                           |
|----------------|--------------------|---|
| Edwards, R. G. | Wilkie, Sask.      | B.A. Oil, Aklavik.                            |
| Meneley, R. A. | Maple Creek, Sask. | Imperial Oil Ltd.,<br>Calgary, Alta.          |
| Meneley, W. A. | Maple Creek, Sask. | B.A. Oil, Regina, Sask.                       |
| Pyke, M.       | Saskatoon, Sask.   | British Newfoundland<br>Explor. Ltd. Labrador |
| Rogan, D.      | Moose Jaw, Sask.   | California Standard,<br>Yukon                 |
| Wild, J.       | Rimbey, Alta.      | Great Plains Dev. Co.<br>Ltd., Calgary        |

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### Subscription Rates

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| Seven years  | \$2.00          |
| Indefinitely | \$10.00 or over |

The Concentrates is in need of more funds, it is being printed largely out of student contributions. We, therefore, make an appeal to all subscribers for assistance. If you know of some alumnus who is not receiving the Concentrates, please notify him of our condition.



|                |                  |                            |
|----------------|------------------|----------------------------|
| Shurley, R.    | Saskatoon, Sask. | Canadian Nickel Co. N.W.T. |
| Sykes, J.      | Saskatoon, Sask. | C.P.R.                     |
| Sorokinsky, V. | Saskatoon, Sask. | City of Saskatoon          |

# Master Students

| Name           | Home Address       | Summer's Activities                         |
|----------------|--------------------|---|
| Edwards, R. A. | Wilde, Sask.       | B.A. Oil, Alberta                           |
| Hewley, H. A.  | Wilde Creek, Sask. | Imperial Oil Ltd.,<br>Calgary, Alta.        |
| Hewley, H. A.  | Wilde Creek, Sask. | B.A. Oil, Regina, Sask.                     |
| Pyke, H.       | Saskatoon, Sask.   | British Newlands<br>Explor. Ltd. Lethbridge |
| Pyke, H.       | Wilde, Sask.       | California Standard,<br>Yukon               |
| Wild, J.       | Wilde, Alta.       | Great Plains Dev. Co.<br>Ltd., Calgary      |

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| Three years | \$1.00          |
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## FACULTY'S ACTIVITIES - 1956

As usual the activities of the faculty are many and varied. On proceeding pages the reader will find summaries of some of the events that the members of our staff took in this year.

Dr. Shearn - worked for the Department of Mineral Resources as a reservoir engineer. He covered a good many of the operating fields in Saskatchewan, but devoted much time to a reservoir study of the Smiley-Viking sand field.

Dr. Byers - also worked for the Department of Mineral Resources, testing electro magnetic instruments in the Flin Flon area. There were four instruments including a Sharpe vertical loop and a portable battery powered horizontal loop design by a member of the engineering staff at Hudson Bay Mining and Smelting. He also did some geochemical work which had been left from last year and to cap a busy summer off he did some private work in the Northwest Territories.

Professor Edmonds - spent most of the summer coming back to Saskatoon from his world tour. In the early part of September, Professor Edmonds was present at a conference organized by the Alberta Society of Petroleum Geologists to discuss the shortage of trained petroleum geologists being graduated from the Universities in Canada. The conference consisted of a number of briefs put forth by both the educators and the oil industry and although nothing really concrete was established both groups agreed to take specific recommendations for short-term and long-term financial aid projects to their superiors. The short-term projects call for comparatively small industry contributions to provide for extension and expansion projects which would have been undertaken long ago if they had had the money. In turn the oil industry hopes for a change in emphasis from mining geology to petroleum geology.

Dr. Kupsch - another member of the staff who was employed by the Department of Mineral Resources. Dr. Kupsch work consisted of Pleistocene geology in the Swift Current region.

Dr. Mawdsley - spent sometime in northwestern Saskatchewan north of Frobisher Lake investigating for the Department of Mineral Resources some of the magnetic and radioactive anomalies shown on recently flown surveys of this area. A number of the magnetic anomalies were checked on the ground and were found to be iron formations and pegmatite or potash-rich granites.



# FACULTY'S ACTIVITIES - 1956

As usual the activities of the faculty are many and varied. On proceeding pages the reader will find summaries of some of the events that the members of our staff took in this year.

Dr. Shearn - worked for the Department of Mineral Resources as a reservoir engineer. He covered a good many of the operating fields in Saskatchewan, and devoted much time to a reservoir study of the Selkirk and field.

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Professor Edmunds - spent most of the summer coming back to Saskatoon from his world tour. In the early part of September, Professor Edmunds was present at a conference organized by the Alberta Society of Petroleum Geologists to discuss the shortage of trained petroleum geologists being graduated from the Universities in Canada. The conference consisted of a number of talks and forth by both the educators and the oil industry and although nothing really concrete was established both groups agreed to take specific recommendations for short-term and long-term financial aid projects to their members. The short-term projects call for comparatively small industry contributions to provide for extension and expansion projects which would have been undertaken long ago if they had had the money. In fact the oil industry hopes for a change in emphasis from mining geology to petroleum geology.

Dr. Hughes - another member of the staff who was employed by the Department of Mineral Resources. Dr. Hughes work consisted of Pleistocene geology in the Swift Current region.

Dr. Hendley - spent sometime in northwestern Saskatchewan north of Regina Lake investigating for the Department of Mineral Resources some of the magnetic and radioactive anomalies shown on recently flown surveys of this area. A number of the magnetic anomalies were checked on the ground and were found to be iron formations and pegmatite or possibly rich granites.



## LITTLE ROCKIES FIELD TRIP

The highlight of the past term was the fall field trip to the Little Rocky Mountains in Montana.

Approximately 45 students accompanied by Drs. Mawdsley and Byers and Professor Edmunds made the trip. The party left by auto and charter bus on the morning of October 5. Stops were made in Saskatchewan at Kyle about 11 a.m. for liquid refreshments and again at Swift Current for lunch. Since geology was the main item of interest on the trip while at Swift Current a short diversion was made to investigate an outcrop of Bearpaw shale, some fine specimens of twinned selenite were found here.

Later that day at Malta, Montana the cavalcade was feted by the Malta Commercial Club. Here also, two guides in the persons of Messrs. Jim Clements and Kirk Badgley, geologists with Shell Oil Company were added to the group. Sometime later the party arrived at its destination Zortman. Sleeping accommodations were found to be "quite adequate" there with as many as nine people sleeping in one room.

Everyone awoke bright and early Saturday morning to begin the first tour. The first excursion included a trip to the Lodgepole Canyon where the group was able to see very good sections. The section consisted of the Mission Canyon formation, type section of the Lodgepole, black shales equivalent to the Bakken this was followed by the Nisku and Duperow shales and eventually the Ordovician. Many samples and fossils were taken including, Bryozoa, brachiopods and crinoids. The second part of the tour was spent examining the type section of the Mission Canyon formation in the canyon of the same name.

Saturday night found a tired but willing assemblage of Ore Gangsters in the local refreshment house trying to organize a dance. Two great entertainment groups were present that night, Bill Meneley and his Meteorites (Roy Rudichuk, violin and Murry Todd, piano) and the one and only Elvis "The Pelvis" Presley on the juke box. George Isfan tried to bring the player piano from the hotel over to get into the act, but for some reason he didn't succeed. It was probably too heavy.

Another early start Sunday morning, however, it looked for a while that the party would have to go without breakfast. A few of the more energetic members won't hear of it and took of the kitchen in the eatery; they had things well under control when the proprietor arrived to open for business.

The second day included a trip to Ruby Gulch to examine the gold mine and mill. Along the way many interesting features were observed, one in particular being some augen structure which was pointed out by Dr. Byers.







After dinner in Zortman the last phase of the field trip began. The Swift and Reiridon formations of Upper Jurassic age were examined along with a salt and pepper sandstone of Lower Cretaceous age. A number of Gryphae, Belemnites, crinoids and brachiopods were obtained there. Following this stop the Mowry shale and Mosby sandstones were observed, gastropods and fish scales were found at this location. In the same vicinity was a valley of archaeological interest, the Indians used it to slaughter buffalo and consequently many arrowheads are found there.

The last stop before returning to Zortman was at Guinn Dome and the Eagle Sandstone. The dome is almost like a text book illustration, as a matter of fact it is rumored that Dr. Byers used it in a problem on fault movement in a Geology 52 lab.

Monday morning found a not so bright but happy group of geologists begin their weary journey back to Saskatoon, more than pleased with the events of the past two days.

### Spring Banquet

On Thursday, March 15, 1956, the annual spring banquet was held in the Bamboo Gardens of the Marigold Cafe. The starting time was set for 6.30, however, as usual things began somewhat before that.

The toastmaster, newly elected Ore Gangue president Roy Rudichuk called upon Murray Todd to give the toast to the graduates, Bill Meneley gave the reply. Jack Wild toasted the faculty, the response being given by Dr. H. A. K. Charlesworth.

Jim Parres, manager of Dee Exploration and a graduate in geology from this university was the guest speaker. His talk covering exploration methods was both humorous and informative.

The guest speaker was followed by some impromptu entertainment which featured one of the Ore Gangue members who tried to establish himself as another Joe Louis. The other half of the program saw a group of beautiful dancing girls stolen from a Jay Cees party in the next room.

The happy group of Ore Ganguesters broke up about 11 p.m. Oh! Those big heads the next morning.



Guess what ?







## CONCENTRATE OF A WORLD TRIP

One returns from a tour round the world with a somewhat restless feeling and finds it hard to settle down. Just to recollect that at this time last year I was basking in the sun on the magnificent South African beaches or wandering among the vineyards of the Cape Peninsula is not good for my physical or mental equanimity.

The satisfaction of knowing that I escaped one of the worst winters in Saskatchewan history is not particularly comforting when I now have to step out into a 30° below temperature, but I can honestly say that I prefer a winter in Western Canada to the chill of a South Australian one. There the temperature does not go much below 40° above, but the indoor temperatures are such that they do not go much above that temperature either. My wife is more positive than I am about her preference. There is no heating in University lecture rooms or laboratories. One can suffer from chilblains and be bitten by mosquitoes at the same time. I gathered most delicious oranges in the garden and went indoors to shiver while eating them.

It is important to work out the program of a world tour so that you strike the best time of the year at each place. I found this difficult with only a year at my disposal. They told me in Australia that I should spend winter in Queensland, spring in South Australia, summer in Tasmania, autumn in Western Australia and not to bother with the rest which includes the important states of New South Wales and Victoria.

Australia is a country well endowed with minerals. Only smells of oil have been discovered so far, but I feel no hesitation in predicting that one day it will be an important oil producer. The Australian, in common with other peoples of the Southern Hemisphere; South Africans and New Zealanders are great gamblers, but the gambling is concentrated on horses and as one of their geologists told me the gambling does not contribute to the finding of natural resources as our Canadian stock market gambling does. To a pure minded Canadian it was rather a shock to find countries where much of the revenue is derived from government lotteries. Sports are of major importance in the southern countries and no wonder, they can play all the year round and in winter are driven outdoors by the indoor cold. I found to my surprise that a lot of them were sitting up from 10 p.m. to 4 a.m. listening to the broadcasts of the test cricket matches being played in England.

Unfortunately last winter (June-July, 1956) in New Zealand was very wet and it rained two out of every three days while we were there. Nevertheless I can recommend your taking some Saskatchewan winter off and spending summer in New Zealand. It is a delightful country and in many respects it is a geologist's paradise, although it suffers from a lack of economic minerals.

During my time away I covered about 47,000 miles, of these 22,000 were by sea and I strongly recommend that form of travel. My wife has worked out that she packed her bags 130 times, since I travelled alone



# CONCENTRATE OF A WORLD TRIP

The weather from a town toward the world with a somewhat restless feeling and this is hard to settle down. Just to recollect that at this time last year I was packing in the sun on the magnificent South African beaches to wintering among the vineyards of the Cape Peninsula is not good for my physical or mental equilibrium.

The satisfaction of knowing that I escaped one of the worst winters in South African history is not particularly comforting when I now have to step out into a 30° below temperature, but I can honestly say that I prefer a winter in Western Canada to the chill of a South Australian one. There the temperature does not go much below 40° above, but the indoor temperatures are such that they do not go much above that temperature either. My wife is more positive than I am about her preference. There is no heating in University lecture rooms or laboratories. One can suffer from chilblains and be better by wrapping up at the same time. I gathered most delicious oranges in the garden and went indoors to shiver while eating them.

It is important to work out the program of a world tour so that you strike the best time of the year at each place. I found this difficult with only a year at my disposal. They told me in Australia that I should spend winter in Queensland, spring in South Australia, summer in Tasmania, autumn in Western Australia and not to bother with the rest which includes the important states of New South Wales and Victoria.

Australia is a country well endowed with minerals. Only smiles of oil have been discovered so far, but I feel no hesitation in predicting that one day it will be an important oil producer. The Australian, in common with other peoples of the Southern Hemisphere, South Africans and New Zealanders are great gamblers, but the gambling is concentrated on horses and as one of their geologists told me the gambling does not contribute to the finding of natural resources as our Canadian stock market gambling does. In a game related Canadian it was rather a shock to find countries where much of the revenue is derived from government lotteries. Sports are of major importance in the southern countries and no wonder, they can play all the year round and in winter are driven outdoors by the indoor cold. I found to my surprise that a lot of them were sitting up from 10 p.m. to 1 a.m. listening to the broadcasts of the best cricket matches being played in England.

Unhappily last winter (June-July, 1956) in New Zealand was very wet and it rained two out of every three days while we were there. However, the less I can recommend your taking some South African winter off and spending summer in New Zealand. It is a delightful country and in many respects it is a geologist's paradise, although it suffers from a lack of economic minerals.

During my time away I covered about 17,000 miles, of these 22,000 were by sea and I strongly recommend that form of travel. My wife has worked out that she packed her bags 130 times, since I travelled alone



to the Middle East and packed my bags 22 times on that trip my score must be over 152. Therefore, during the 425 days that I was away I must have packed on the average once in 2.8 days. It was a great relief to have some settled life at sea without having to pack for three two week spells, between Southampton and Cape Town, Cape Town and Melbourne and Auckland and Vancouver respectively.

The summer in the British Isles and on the Continent was an exceedingly good one. We were able to travel extensively, visit old friends, see much new country and not neglect geology. I made the journey to the Middle East in October and November and this was the geological highlight for me. It is a great satisfaction that it was 1956 and not 1957 for I could see these countries in a tranquil state with all the oil fields operating and their 600 producing wells averaging 5,300 barrels per well per day. One cannot get a true idea of those fabulous countries or of their importance to the economy of Western Europe without visiting them. The contrast between a way of life that has been going on without any great change for thousands of years and the highly organized commercial oil developments is staggering.

Traveling from the oil fields area of Iran into the mountain country to the northeast one passes through villages where the main occupation is charcoal burning. The adjacent hill country has been denuded of trees but the people travel for miles with their donkey trains to collect wood, mostly oak, from distant valleys. The wood is packed into pits, which have been dug along the road side, covered up and burnt. One of the best oil seepages I have ever seen was only a few miles from one of these villages but the charcoal is the fuel used for cooking and to provide some heat in winter for their houses and tents. The local tribesmen of the region are the Laurs. They were on their annual migration bringing their flocks of sheep and goats from the mountains to winter in the warmer valley or plains areas. The personal belongings of each family were loaded on two or three donkeys with the scrawny poultry clinging precariously on the top of the donkeys' packs. A common sight on the road is that of boys or women walking along spinning wool into yarn as they go. Some of this wool will be used to make the priceless Persian carpets which are still manufactured in the black tent homes of the mountain peoples. These country people seemed to be a cheerful, happy lot in spite of their hard lives. The same happiness did not seem evident in the towns where squalor and beggars abound. My geologist guide had been in the country for many years, spoke the language and had much sympathy for the people, he never failed to give alms to any blind beggar he saw.

The last place I visited in the Middle East was the desert region of the Trucial Coast. There a wild cat was being drilled about 30 miles inland. The white staff was a very congenial one composed of both American and English. The camp was protected by a platoon of local troops, I suppose to guard against outside American intervention but all was peaceful when I was there. All water for the camp and operation was distilled sea water and was piped from the Coast. The only topographic feature was a small Jebel about 12 feet high, it was named after the favorite brand of beer used at the camp, but unfortunately I have forgotten its name.







Something I shall never forget was the flight back to England. It was night and the west coast of the Gulf from Bahrain to Basra was lit up with a succession of gas flares from the various fields, Damman, Qatif, Safaniya, Burgan and Zubair. I wished I could take some of the waste heat back with me to provide a little warmth for the English winter. At dawn we were flying over the desolation of Sina, then over Suez for a short stop at Cairo. Over the Mediterranean there was a stormy sea through which tankers were plowing their way, carrying oil from the Middle East to the hungry markets of Western Europe.

From the office windows of the Kuwait Oil Company in London one can see the streams of cars crossing Hyde Park and the congestion of traffic in at least a third of all traffic to be seen at any time from that view point is consuming the product of just one oil field, the Burgan. That one field was producing 1,100,000 barrels a day when I visited it.

New Year's eve was spent in the company of many other Saskatchewaners at Saskatchewan House where the Agent General and Mrs. Graham Spry entertained us and saw to it that 1956 was ushered in properly. This was a fitting conclusion to our time in England and we sailed shortly after to South Africa and summer weather.

## THE INTERNATIONAL GEOLOGICAL CONGRESS

W. O. Kupsch

The Twentieth International Geological Congress was officially opened by the President of the Republic on September 4, 1956, in the National Auditorium largest assembly hall of Mexico City. This opening rated banner headlines in the local newspapers, because even in a metropolis of more than 3 million an influx of about 4,000 geologists and accompanying visitors from all over the world is a notable event. With this crowd Dr. Mawdsley and I mingled for a week, attending sessions in the day time, talking to many old friends and a few new ones, shopping with the ladies, sightseeing, and nightclubbing.

The meetings of the Congress were held at the newly built University, a most colorful place of pleasingly balanced modern architecture. The main library, which is truly the heart of the campus, is quickly becoming a national shrine. Its windowless box-like upper part, which houses the stacks, is covered on the outside with monumental mosaics depicting the history of Mexico. Most of the other buildings are also enriched with mosaics, some of them, as on the Engineering Building, in three dimensions. No other campus in the world can boast such a bold, imaginative fusion of art and functional architecture.







Because of the great number of scientific papers that were presented, many sessions were held concurrently. It was therefore possible to attend only a small portion of them. Most important were the symposia on selected subjects such as the Cretaceous System of the World. These will be published in separate volumes in which the interested geologist will find a summary of world knowledge about the particular subject.

Fortunately geology is still predominantly an outdoor science, although it was evident from the titles of many papers that more and more laboratory investigations supplement the fundamental fieldwork. To satisfy this desire for field investigations, trips were organized by the Congress. As I motored from Saskatoon to Mexico City and back I did not have sufficient time to participate in any of the organized tours, but did geology along the road on my own. Yellowstone Park, the Tetons, Salt Lake, Grand Canyon were highlights. In Mexico a side trip to Paricutin, a 1,300 feet high volcano born in a farmer's field 14 years ago, gave us an opportunity to see and feel volcanic ash, climb over a lava flow, and collect specimens for the geology department.

Geologists can be grateful for being in a profession in which there are many opportunities for travel as it enlarges not only their specialized knowledge, but widens their outlook on life by bringing them in contact with other people and sometimes different cultures. Thanks to the Saskatchewan Department of Mineral Resources and the University of Saskatchewan such an opportunity was given to me and I hope that I will be able to pass some of the benefits on to my students.

## MEXICO

J. B. Mawdsley

On August 19 my daughter Ann and I left Vancouver by C.P.A. at two in the morning and landed in Mexico City that Sunday afternoon at 1 p.m. without having put down our wheels between.

Two days later we left by air for Durango, 500 miles north of Mexico City and joined about 70 others - two bus loads. We landed back a week later in Mexico City after visiting various mines and interesting small cities that tourists usually do not see. The following morning we left with another group by bus for the lovely city of Oaxaca, 250 miles south of the capital. Besides much strata and recent volcanic phenomena we saw two notable archaeological sites near this city, the ruins of Monte Alban and Mitla.

These and what can be seen near Mexico City and in the National Museum are most impressive and make you realize that besides being expert farmers (corn, beans, potatoes, cocoa, tobacco, unknown to Europe before introduction by the Spaniards) they were great miners, builders, engineers and artists. It is an open question if the fanaticism and cupidity of the Spaniards did not destroy more than they gave.







After the Congress which lasted eight days we took a five-day circuitous trip, again by bus, through the lovely country southwest of the capital with stops at such cities as Cuernavaca and Taxco.

Besides the beauty of the country and the great attraction of their Indian civilization and art there was a thrill in noting the recent great social developments and the great advances in education. The government schools have cut illiteracy in the last 20 years from 80 per cent to 40 per cent. There is now a national pride and hope born of a knowledge that finally their future is in their own hands. The University of Mexico, mentioned by Professor Kupsch, typifies it - its architecture is a lineal descendant of the Mexican and borrows nothing from the European. They feel that they are a young country like Canada just starting to roll. They are a national reported to be 10 per cent Spanish, 40 per cent Mestizo and 50 per cent Indian, and the present control is obviously in the hands of the last two groups.

We managed to get through customs at Vancouver on September 11 with a considerable assortment of serapes, linens, silver jewelry, pottery, lots of coloured pictures we had taken and many pleasant memories we will never forget.

Thanks to:

Mrs. E. Sins - Geology librarian and stenographer without whose considerable assistance the Concentrates would not have been possible.

Ernie Hawkins - The Geology lab technician who has prepared innumerable thin sections for theses, etc., and who always has a ready ear for the students wailings.

Roy Rudichuk - whose handiwork adorns the cover and pages of the Concentrates.

Gary Edwards - for his advice as to Concentrates operations.



Natural Rock Bridge  
Mission Canyon Limestone  
Little Rocky Mountains

RAR







## ATHLETIC AND SOCIAL ACTIVITIES

### Football

In mid October the Ore Gangues "football team" took to the gridiron for its first and last game of the '56 season. With Roy (the rifle) Rudichuk using Fred Sharpley as his key pass receiver the Ganguesters proved much too strong for the Mechanical Engineers swamping them 28-7.



### Curling

This year a new sport was entered into by the Ore Gangue when the Rutherford rink curling sheets were rented for Saturday afternoons. The league started in January with 10 rinks in competition and has been going strong since. It is hoped that the season will wind up with another rum bonspiel as was held last March ('56).

### Banquet at J.D.'s

On Thursday, December 6, a banquet was held at J.D.'s on 8th Street. It was attended by over 40 Ore Ganguesters both present and past.

Prior to the dinner a very interesting and educational tour was made of O'Keefes brewery followed by a not too brief pause at one of the local refreshment houses.

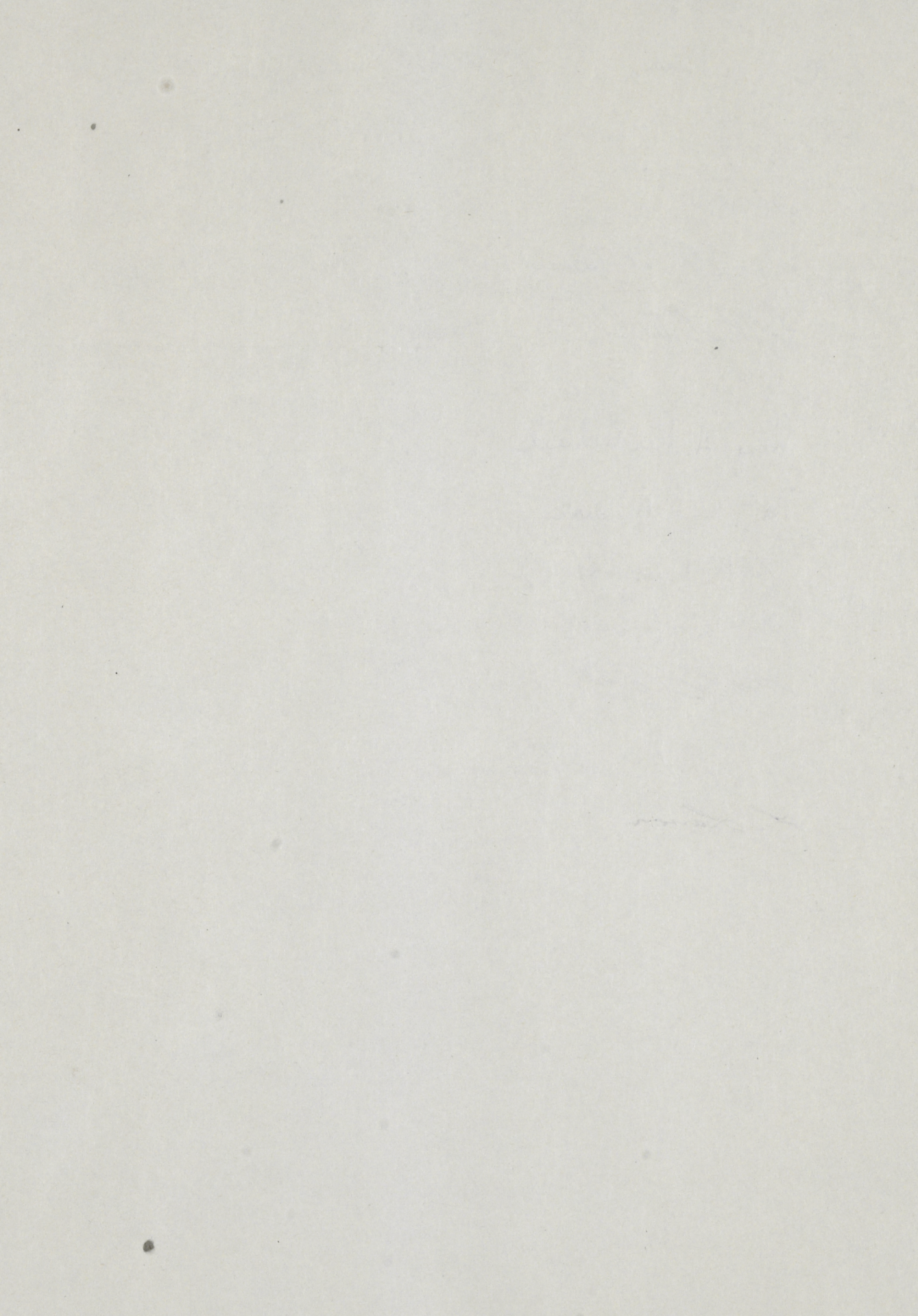
After a fine steak dinner a period of slide showing was introduced by Dr. Kupsch and Dr. Mawdsley. They showed scenes of both geological and general interest seen on their September trip to the International Geological Congress at Mexico City. Other slides were shown by Gary Edwards and Ian Howrie.

The party broke up in the neighborhood of 11 p.m. All were in good spirits and it is felt that the fall banquet is an annual Good Thing.











Ken Pitchoard  
G. Hilgen.

Lee Manning

Jon. Kent

S. B. Crawford

D. Daase.

G. Isfan

John G. McCamis

F. Mitchell

M. A. Nichol

Ray A. Rudichuk

Ed. B. Schmidt

Joe H. Dundas

Sam S. Howie

W. B. Talt

Maurice C. LeBlanc

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